

Date: Sat, 2 Oct 93 04:30:27 PDT  
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>  
Errors-To: Ham-Equip-Errors@UCSD.Edu  
Reply-To: Ham-Equip@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Equip Digest V93 #60  
To: Ham-Equip

Ham-Equip Digest Sat, 2 Oct 93 Volume 93 : Issue 60

## Today's Topics:

## Advice on a Few Radios and 2m HT questions Butterworth Filters

Help getting service manual for type 214 Tectronix scope & 1L20  
Icom Repairs? (2 msgs)  
Updating filters in TenTec Argosy 525? (2 msgs)

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>  
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 30 Sep 1993 15:57:09 -0400  
From: digex.net!universe!heretic@uunet.uu.net  
Subject: Advice on a Few Radios and 2m HT questions  
To: ham-equip@ucsd.edu

S944148@UMSLVMA.UMSL.EDU (Tom) writes:

>  
>I myself am looking around for what kind of HT to purchase and have  
>done some research on the matter. Here's what I've considered...  
>  
>1st: Find where the action is in your area. This will help you decide  
> if you should go with a 2m, dual-bander, etc. Check the ARRL Repeater  
> directory...  
>

Where is this? Can you get to it on the internet somehow?

>2nd: Consider what you'll be doing with it. Autopatch? You may want  
> things like autodial and DTMF encode/decode. If you travel a lot  
> you might also want sometime that can DEcode CTCSS tones.  
>

I am a novice ham and I have been thinking of upgrading to my technicians license so that I can get a handy talk but it's been so many years since I've dealt with this sort of thing. What would people reccommend in small transcievers (the smaller the better) with autopatch capabilites and 20 mile or so range? I have had a pager up till now supplied by my company but they didn't renew the contract and my wife has been going nuts not knowing how to get a hold of me during the day. So I was thinking if I could get some information on something that would allow us to communicate without even bothering with the phone line she may go for it.

>3rd: I  
would suggest you get a radio with CTCSS (sub-audible squelch)  
> capability, DTMF dial capability, and external mic connections  
> (most have this).  
>

I'm not sure what this is but it sounds like it might be the kind of thing where you have a personal code to open your squelch. If so that would make much more sense than a pager. Is this correct or am I reading it wrong? Is there anything that does this without an audible tone like the vibrator modes on the pagers?

>Don't be afraid to ask questions... that's what this is for, right?  
>Perhaps read the existing messages first and you may find your answer.  
>If not, ask!  
>  
>Tom

OK you talked me into it Tom (-: Thanks in advance for the info.

- Mike

--  
>The day will come when the mystical generation of Jesus by the Supreme <  
>Being in the womb of a virgin, will be classed with the fable of the <  
>generation of Minerva in the brain of Jupiter. - Thomas Jefferson <  
>>> Finger for armored text pgp public key. -heretic@universe.digex.net<<<

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Date: 1 Oct 93 23:31:51 GMT  
From: nevada.edu!ilikecpu@uunet.uu.net  
Subject: Butterworth Filters

To: ham-equip@ucsd.edu

Hello all,

Are there any electronic math wizards out there that can help me find an equation that when given the number of elements N, a cutoff freq., and the source and load Z's the equation will determine the L and C values for a low pass Butterworth Filter ????

Any and all information regarding Butterworth mathematics will be appreciated.

Thanks,  
Barrie

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Date: Fri, 1 Oct 1993 16:27:38 GMT  
From: sdd.hp.com!cs.utexas.edu!swrinde!gatech!usenet.ins.cwru.edu!  
news.ecn.bgu.edu!feenix.metronet.com!ifs@network.ucsd.edu  
Subject: Help getting service manual for type 214 Tectronix scope & 1L20  
To: ham-equip@ucsd.edu

Can any one help me with getting a service manual (cheaply) on the model 214 Tectronix scope and also a service manual for the 1L20 spectrum analyzer plug in. I am in the process of repairing these.

Thanks

PÙQOO  
Roy N5VCEÙQQS sÙeÙ

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Date: Thu, 30 Sep 1993 12:08:16 -0400  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!math.ohio-state.edu!cis.ohio-state.edu!news.sei.cmu.edu!bb3.andrew.cmu.edu!andrew.cmu.edu!  
cb1p+@network.ucsd.edu  
Subject: Icom Repairs?  
To: ham-equip@ucsd.edu

Ok folks, I need to know where to get my new W21-AT repaired. It seems that after I made a modification to the case (a tiny hole so that the mic gain is effectively increased) the speaker no longer works. I can't seem to figure it out. I used careful ESD protection during the surgery, including a grounded iron to remove and replace the speaker (required to remove the digital circuit board). Now the speaker is dead and reads infinite ohms.

So, where to send it? Or can I buy a replacement speaker?

TNX & 73s de N3PDG  
Cb

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Date: 30 Sep 1993 13:42:47 -0700  
From: dog.ee.lbl.gov!agate!library.ucla.edu!galaxy.ucr.edu!galaxy.ucr.edu!not-for-mail@network.ucsd.edu  
Subject: Icom Repairs?  
To: ham-equip@ucsd.edu

In article <YgekFkW00WB8AjLnsd@andrew.cmu.edu>,  
Chris Beasley <cb1p+@andrew.cmu.edu> wrote:

>Ok folks, I need to know where to get my new W21-AT repaired.  
<deleted>  
>So, where to send it? Or can I buy a replacement speaker?  
>Cb

Call ICOM America Customer Support at 800-872-4266.

They can tell you where the closest service center is and may even be able to offer some suggestions on repairing your W21-AT.

-Stan Koszelak  
N6YYV

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Date: 30 Sep 1993 16:44:55 GMT  
From: news.graphics.cornell.edu!newsstand.cit.cornell.edu!  
newsstand.cit.cornell.edu!usenet@tcgould.tn.cornell.edu  
Subject: Updating filters in TenTec Argosy 525?  
To: ham-equip@ucsd.edu

Greetings,

I've got an old analog dial Ten Tec Argosy 525 which has been a lot of fun mobiling and stuff and I'm continuing to tweak and tinker on it to make it customised to my likes. It has a nice CW filter in it for 500 hz, but the SSB filter is the old 4 crystal version which is a bit wide for modern band conditions. I'm told I can get new filters for 2.4 or 1.8 khz from TenTec, but their order

sheet doesn't show anything for the 525, only  
the 546 and things like that. Question 1 is, are  
those filters compatible?

Question 2 - if they are, which one should I pop  
for? 2.4 or 1.8 khz? I don't think I've ever used  
a rig with 1.8 khz filters so I don't really know  
what they sound like.

Question 3 - I have some old mil equipment SSB  
filters, centered on 9.000 and one is USB and  
the other LSB. I think that the filter in the  
Argosy is essentially 9.000 to 9.003, corresponding  
to the USB filter, so I could potentially drop that  
in and see what it does - anybody have a clue  
as to the termination impedances in the  
Argosy? (I may just try it for grins and giggles  
anyway to see what happens if it fits)

Question 4 - Anybody done the carrier oscillator  
adjustment? I tried the procedure in the manual  
and had a couple of problems. One I can't get the  
750 hz shift for CW to come out right, more like  
200 hz so far. Second, they tell you that the power  
should come back up in the lock mode to 20 vrms,  
but mine doesn't - though the rig makes output  
in regular cw when I try it. I think that's an error  
in the procedure, but I'm not sure. Anyone got a  
process they know works here?

While I'm here, anybody got any interesting  
mods for the old beast? I'd love to put in a  
counter for the frequency readout but can't  
find room to cram a display in easily. (without  
doing more metalwork than I am likely to get  
to) Anybody got a simple circuit to light up  
a different LED at each 100 khz point to replace  
that damn slider that keeps getting stuck? :-)

thanks in advance for any help or comments

73 de Kevin, WB2EMS

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Date: 30 Sep 1993 12:51:06 -0700  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!library.ucla.edu!csulb.edu!  
paris.ics.uci.edu!not-for-mail@network.ucsd.edu

Subject: Updating filters in TenTec Argosy 525?  
To: ham-equip@ucsd.edu

Hi Kevin:

A few comments. I don't know what the IF freq is for the Argosy. BUT, Ten Tec still makes 9 Mhz filters, AND you can frequently find them used from radio stores. I just bought some at \$39 each. Find out the model number from the Argosy manual, if the filters are the 217, 218 219 or 220, they are the standard 9 Mhz filters and available from Ten Tec.

The one other comment I can make - I just bought the 1.8 filter. I don't like it. It just muffles the audio too much. However, I do get used to it after a while, and it does improve reception at certain times. If you like fidelity at all, stay with the 2.4, just get the 8 pole filter.

Good luck. I like that little radio. Use them for field day all the time.

Clark  
WA3JPG

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End of Ham-Equip Digest V93 #60  
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